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1644

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/065,902

DATE: 08/11/2000
TIME: 15:57:31

RECEIVED

Input Set : A:\06094270001-Seqlisting.txt
Output Set : N:\CRF3\08142000\I065902.raw

SEQUENCE LISTING

1 (1) GENERAL INFORMATION:
6   (i) APPLICANT: Tanzi, Rudolph E
              Kim, Tae-Wan
9   (ii) TITLE OF INVENTION: A Purified 20 kDa Presenilin 2
10   C-terminal Fragment and Methods of Screening for Compounds
11   that Inhibit Proteolysis of Presenilin 2
12   (iii) NUMBER OF SEQUENCES: 19
13   (iv) CORRESPONDENCE ADDRESS:
15   (A) ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
17   (B) STREET: 1100 New York Avenue, NW, Suite 600
18   (C) CITY: Washington
19   (D) STATE: DC
20   (E) COUNTRY: USA
21   (F) ZIP: 20005-3934
23   (v) COMPUTER READABLE FORM:
24   (A) MEDIUM TYPE: Floppy disk
25   (B) COMPUTER: IBM PC compatible
26   (C) OPERATING SYSTEM: PC-DOS/MS-DOS
27   (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
29   (vi) CURRENT APPLICATION DATA:
C--> 30   (A) APPLICATION NUMBER: US/09/065,902
C--> 31   (B) FILING DATE: 24-Apr-1998
32   (C) CLASSIFICATION:
34   (vii) PRIOR APPLICATION DATA:
35   (A) APPLICATION NUMBER: US 60/044,262
36   (B) FILING DATE: 25-APR-1997
38   (viii) ATTORNEY/AGENT INFORMATION:
39   (A) NAME: Goldstein, Jorge A
40   (B) REGISTRATION NUMBER: 29,021
41   (C) REFERENCE/DOCKET NUMBER: 0609.1270001/JAG/S-S
42   (ix) TELECOMMUNICATION INFORMATION:
43   (A) TELEPHONE: (202) 371-2600
44   (B) TELEFAX: (202) 371-2540
47 (2) INFORMATION FOR SEQ ID NO: 1:
48   (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 5 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
W--> 53   (D) TOPOLOGY: not relevant
55   (ii) MOLECULE TYPE: peptide
60   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
62   Asp Ser Tyr Asp Ser
63   1
65 (2) INFORMATION FOR SEQ ID NO: 2:
66   (i) SEQUENCE CHARACTERISTICS:
68   (A) LENGTH: 5 amino acids

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```
        6_          (B) TYPE: amino acid
        70          (C) STRANDEDNESS: single
W--> 71             (D) TOPOLOGY: not relevant
        7_      (ii) MOLECULE TYPE: peptide
        8_      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
        8_       Pro Glu Met Glu Glu Asp
        81       1               5
    8_ (2) INFORMATION FOR SEQ ID NO: 3:
        8_      (i) SEQUENCE CHARACTERISTICS:
        8_          (A) LENGTH: 7 amino acids
        8_          (B) TYPE: amino acid
        88          (C) STRANDEDNESS: single
W--> 89             (D) TOPOLOGY: not relevant
        9_      (ii) MOLECULE TYPE: peptide
        9_      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
        9_       Pro Glu Met Glu Glu Asp Ser Tyr Asp
        9_       1               5
    1_1 (2) INFORMATION FOR SEQ ID NO: 4:
        10_     (i) SEQUENCE CHARACTERISTICS:
        104         (A) LENGTH: 7 amino acids
        10_         (B) TYPE: amino acid
        10_         (C) STRANDEDNESS: single
W--> 107            (D) TOPOLOGY: not relevant
        10_     (ii) MOLECULE TYPE: peptide
        1_1     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
        1_6      Pro Glu Met Glu Glu Asp Ser
        1_9      1               5
    119 (2) INFORMATION FOR SEQ ID NO: 5:
        1_1     (i) SEQUENCE CHARACTERISTICS:
        1_2         (A) LENGTH: 8 amino acids
        1_3         (B) TYPE: amino acid
        1_4         (C) STRANDEDNESS: single
W--> 125            (D) TOPOLOGY: not relevant
        1_7     (ii) MOLECULE TYPE: peptide
        1_9     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
        131      Pro Glu Met Glu Glu Asp Ser Tyr
        135      1               5
    1_7 (2) INFORMATION FOR SEQ ID NO: 6:
        1_9     (i) SEQUENCE CHARACTERISTICS:
        1_0         (A) LENGTH: 6 amino acids
        1_1         (B) TYPE: amino acid
        1_2         (C) STRANDEDNESS: single
W--> 143            (D) TOPOLOGY: not relevant
        1_5     (ii) MOLECULE TYPE: peptide
        1_9     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
        1_2      Glu Met Glu Glu Asp Ser
        1_3      1               5
    1_5 (2) INFORMATION FOR SEQ ID NO: 7:
        1_7     (i) SEQUENCE CHARACTERISTICS:
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RAW SEQUENCE LISTING
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Input Set : A:\06094270001-Seqlisting.txt
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```
        153       (A) LENGTH: 7 amino acids
        159       (B) TYPE: amino acid
        160       (C) STRANDEDNESS: single
W--> 161          (D) TOPOLOGY: not relevant
        16.   (ii) MOLECULE TYPE: peptide
        164   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
        170    Glu Met Glu Glu Asp Ser Tyr
        171    1               5
        173 (2) INFORMATION FOR SEQ ID NO: 8:
        175     (i) SEQUENCE CHARACTERISTICS:
        176       (A) LENGTH: 8 amino acids
        177       (B) TYPE: amino acid
        178       (C) STRANDEDNESS: single
W--> 179          (D) TOPOLOGY: not relevant
        181   (ii) MOLECULE TYPE: peptide
        185   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
        188    Glu Met Glu Glu Asp Ser Tyr Asp
        189    1               5
        191 (2) INFORMATION FOR SEQ ID NO: 9:
        193     (i) SEQUENCE CHARACTERISTICS:
        191       (A) LENGTH: 6 amino acids
        195       (B) TYPE: amino acid
        196       (C) STRANDEDNESS: single
W--> 197          (D) TOPOLOGY: not relevant
        199   (ii) MOLECULE TYPE: peptide
        204   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
        206    Glu Glu Asp Ser Tyr Asp
        207    1               5
        209 (2) INFORMATION FOR SEQ ID NO: 10:
        211     (i) SEQUENCE CHARACTERISTICS:
        212       (A) LENGTH: 7 amino acids
        213       (B) TYPE: amino acid
        214       (C) STRANDEDNESS: single
W--> 215          (D) TOPOLOGY: not relevant
        217   (ii) MOLECULE TYPE: peptide
        222   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
        224    Glu Glu Asp Ser Tyr Asp Ser
        225    .               5
        227 (2) INFORMATION FOR SEQ ID NO: 11:
        229     (i) SEQUENCE CHARACTERISTICS:
        230       (A) LENGTH: 8 amino acids
        231       (B) TYPE: amino acid
        232       (C) STRANDEDNESS: single
W--> 233          (D) TOPOLOGY: not relevant
        235   (ii) MOLECULE TYPE: peptide
        240   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
        242    Glu Glu Asp Ser Tyr Asp Ser Phe
        243    1               5
        245 (2) INFORMATION FOR SEQ ID NO: 12:
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/065,902

DATE: 08/11/2000
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Input Set : A:\06094270001-Seqlisting.txt
Output Set: N:\CRF3\08142000\I065902.raw

```
    217       (i) SEQUENCE CHARACTERISTICS:
    248          (A) LENGTH: 6 amino acids
    249          (B) TYPE: amino acid
    250          (C) STRANDEDNESS: single
W--> 251          (D) TOPOLOGY: not relevant
    253      (ii) MOLECULE TYPE: peptide
    252      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
    266       Glu Asp Ser Tyr Asp Ser
    205       1           5
    261  (2) INFORMATION FOR SEQ ID NO: 13:
    265       (i) SEQUENCE CHARACTERISTICS:
    266          (A) LENGTH: 7 amino acids
    267          (B) TYPE: amino acid
    268          (C) STRANDEDNESS: single
W--> 269          (D) TOPOLOGY: not relevant
    271      (ii) MOLECULE TYPE: peptide
    276      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
    278       Glu Asp Ser Tyr Asp Ser Phe
    279       1           5
    281  (2) INFORMATION FOR SEQ ID NO: 14:
    283       (i) SEQUENCE CHARACTERISTICS:
    284          (A) LENGTH: 8 amino acids
    285          (B) TYPE: amino acid
    286          (C) STRANDEDNESS: single
W--> 287          (D) TOPOLOGY: not relevant
    289      (ii) MOLECULE TYPE: peptide
    294      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
    296       Glu Asp Ser Tyr Asp Ser Phe Gly
    297       1           5
    299  (2) INFORMATION FOR SEQ ID NO: 15:
    301       (i) SEQUENCE CHARACTERISTICS:
    302          (A) LENGTH: 8 amino acids
    303          (B) TYPE: amino acid
    304          (C) STRANDEDNESS: single
W--> 305          (D) TOPOLOGY: not relevant
    307      (ii) MOLECULE TYPE: peptide
    312      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
    314       Asp Tyr Lys Asp Asp Asp Asp Lys
    315       1           5
    317  (2) INFORMATION FOR SEQ ID NO: 16:
    319       (i) SEQUENCE CHARACTERISTICS:
    320          (A) LENGTH: 9 amino acids
    321          (B) TYPE: amino acid
    322          (C) STRANDEDNESS: single
W--> 323          (D) TOPOLOGY: not relevant
    325      (ii) MOLECULE TYPE: peptide
    330      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
    332       Asp Ser Glu Pro Asp Ser Pro Val Phe
    333       1           5
```

RAW SEQUENCE LISTING
PATENT APPLICATION   US/09/065,902

DATE: 08/11/2000
TIME: 15.37.51

Input Set : A:\06094270001-Seqlisting.txt
Output Set: N:\CRF3\08142000\I065902.raw

```
(2) INFORMATION FOR SEQ ID NO: 17:
337       (i) SEQUENCE CHARACTERISTICS:
338           (A) LENGTH: 9 amino acids
339           (B) TYPE: amino acid
340           (C) STRANDEDNESS: single
W-->341           (D) TOPOLOGY: not relevant
342       (ii) MOLECULE TYPE: peptide
348       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
350       Lys Asp Glu Pro Asp Ser Pro Pro Val
351       1                       5
353  (2) INFORMATION FOR SEQ ID NO: 18:
355       (i) SEQUENCE CHARACTERISTICS:
356           (A) LENGTH: 5 amino acids
357           (B) TYPE: amino acid
358           (C) STRANDEDNESS: single
W-->359           (D) TOPOLOGY: not relevant
361       (ii) MOLECULE TYPE: peptide
362       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
363       Gln Arg Asp Ser His
369       1                   5
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VERIFICATION SUMMARY
PATENT APPLICATION   US/09/065,902

DATE: 08/14/2000
TIME: 15.??.??

Input Set : A:\06094270001-Seqlisting.txt
Output Set: N:\CRF3\08142000\I065902.raw

L:30 M:226 C: Keyword misspelled or invalid format. [(A) APPLICATION NUMBER:]
L:51 M:270 C: Keyword misspelled or invalid format. [(B) FILING DATE]
L:86 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=1. Value [not relevant]
L:71 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=2. Value [not relevant]
L:84 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=3. Value [not relevant]
L:107 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=4. Value [not relevant]
L:175 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=5. Value [not relevant]
L:143 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=6. Value [not relevant]
L:161 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=7. Value [not relevant]
L:179 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=8. Value [not relevant]
L:197 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=9. Value [not relevant]
L:215 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=10. Value [not relevant]
L:233 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=11. Value [not relevant]
L:251 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=12. Value [not relevant]
L:269 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=13. Value [not relevant]
L:287 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=14. Value [not relevant]
L:305 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=15. Value [not relevant]
L:323 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=16. Value [not relevant]
L:341 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=17. Value [not relevant]
L:359 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:], SeqNo=18. Value [not relevant]